

## CLIMATOLOGICAL DATA FOR JULY, 1911.

## DISTRICT No. 8, TEXAS AND THE RIO GRANDE VALLEY.

BERNARD BUNNEMEYER, District Editor.

## GENERAL SUMMARY.

The month was characterized by much cloudy weather, with frequent and generally well distributed rains, and by warm days and relatively cool nights. Precipitation occurred every day in the month in some portion of the district, but it was mostly in local showers which yielded unequal amounts in near-by localities. In general the monthly amounts were decidedly above the normal in the Colorado and New Mexico areas and in the greater portion of Texas, embracing the Trans-Pecos region and all that portion of the State lying north and east of the Colorado River. In the remaining portions of Texas from the Colorado southward to the Rio Grande and westward to the Rio Pecos there was a considerable deficiency, although a few scattered localities were favored with some splendid rains. However, the precipitation was inadequate to relieve the prolonged drought in southwestern Texas, and this section is practically the only one in the district that was badly in need of moisture at the close of the month. So far as New Mexico is concerned this is the wettest July on record since 1895. The relative humidity was high in the greater portion of the district, and the number of days with 0.01 inch or more of precipitation averaged 17 in Colorado, 11 in New Mexico, and 7 in Texas. There were but few severe local storms during the month, although thunderstorms occurred frequently, and several deaths by lightning were reported. Considerable damage was caused in New Mexico by washouts and by floods of the Rio Grande and Rio Pecos.

The greatest and least monthly amounts of precipitation in Colorado were 5.58 inches at La Veta Pass and 2.39 inches at Garnett; in New Mexico, 11.54 inches at Torrance and 1.36 inches at Agricultural College; and in Texas, 14.95 inches at Henderson and none at Cotulla and Dilley. These last named places are located in southwestern Texas, in Lasalle and Frio Counties, respectively, and appear to be nearly in the center of the droughty area. Excessive precipitation of 2.50 inches or more in 24 consecutive hours occurred at 4 stations in New Mexico and at 32 in Texas, the heaviest being 5.80 inches at Torrance, N. Mex., on the 9th, and the next heaviest, 5.35 inches at Liberty, Tex., on the 7th-8th.

## TEMPERATURE.

The monthly mean temperature was  $0.2^{\circ}$  below the normal in Colorado and  $2.4^{\circ}$  below in New Mexico. In Texas it averaged about normal, although it was warmer than normal in the region of deficient precipitation and correspondingly colder in the remaining portions of the State. In New Mexico it was the coolest July since 1895, with the exception of July, 1906. There was not much

change in temperature from day to day, although cool weather occurred on several days. The lowest temperatures were recorded in the greater portion of the district from the 24th to 26th. The daily range of temperature varied from about  $8^{\circ}$  on the upper Texas coast to about  $30^{\circ}$  in the northwestern portion of that State. The range was relatively small in Colorado and New Mexico due to unusual cloudiness.

The highest and lowest temperatures reported were: In Colorado,  $96^{\circ}$  at Saguache on the 13th and  $37^{\circ}$  at Wagon Wheel Gap Experiment Station on the 31st; in New Mexico,  $102^{\circ}$  at Plainview on the 30th and  $32^{\circ}$  at Red River Canyon on the 30th; and in Texas,  $111^{\circ}$  at Ballinger on the 23d and  $52^{\circ}$  at Plainview on the 25th.

## PRECIPITATION.

Unusually heavy rains occurred over the Rio Grande watershed from the source of the stream to its junction with the Rio Pecos, but south of that junction there was a marked deficiency amounting to nearly 1.50 inches. The average for the entire drainage area was 3.76 inches, which is over 300 per cent more than reported for June. The greatest monthly precipitation was 8.31 inches at Rosedale, N. Mex., and the least 0.08 inch at Eagle Pass, Tex.

The precipitation over the Rio Pecos watershed was even heavier than over that of the Rio Grande, but in this case also there was a conspicuous deficiency over the lower portion south of New Mexico. The average for the entire drainage area was 4.76 inches, which is about 400 per cent more than reported for June. The greatest monthly amount was 11.54 inches at Torrance, N. Mex., and the least, 0.76 inch at Grand Falls, Tex.

The Texas watersheds west of the Colorado River showed a decided shortage of precipitation, while those east of that stream received a marked excess. Over the Colorado drainage area the precipitation was very nearly normal. The heaviest precipitation occurred over the Neches drainage area, with monthly amounts in several localities exceeding 11 inches. One station, Henderson, in this watershed, reported 14.95 inches, which was the heaviest in the district. The least precipitation occurred over the Nueces drainage area, and two stations in this watershed, Cotulla and Dilley, received no moisture during the month. The following are the average monthly amounts in inches for the various watersheds: Nueces, 0.64; San Antonio, 1.33; Guadalupe, 1.58; Lavaca, 1.52; Colorado, 2.61; Brazos, 4.69; Trinity, 4.96; Neches, 8.32; Sabine, 5.22; and coastal plains, 3.34. While these amounts for the watersheds as a whole average about 2.50 inches more than those reported for June, the Nueces watershed and adjoining sections were badly in need of moisture at the close of the month.

## RIVER CONDITIONS.

The Rio Grande and the Rio Pecos were at flood stage during the month, and special mention of the floods of these streams has been made elsewhere in this summary.

Of the Texas streams the Nueces, San Antonio, and Guadalupe were at low water mark during the month. The Colorado, Brazos, Trinity, Neches, and Sabine had a good flow of water after the first decade, and, although they were falling at the close of the month, they carried a much larger volume of water then than at the beginning of the month. Flood stage was not attained, but the Brazos was nearly bank full on the 18th in the vicinity of Waco. There was an abundance of water in the lower Colorado for the rice that had not reached the stage of maturity and for all other irrigating purposes.

## FLOODS OF THE RIO GRANDE AND OF THE RIO PECOS.

By F. H. BRANDENBURG, District Forecaster.

*Rio Grande.*—The rainfall on the watershed of the Rio Grande in New Mexico, in common with its upper reaches in south-central Colorado, was exceptionally heavy during July. In San Luis Valley, Colorado, rain fell on an average of 17 days, and in amount has rarely been exceeded in July, while near the southern border of Colorado it was the greatest of record. In New Mexico, especially the northern part, the persistence of rain was fully as marked. At Santa Fe the fall was the greatest for July in 35 years, and at El Paso, Tex., the greatest in 30 years. The heavy rainfall was reflected in the Rio Grande and flood stage was maintained in the greater part of its course during the entire month. Naturally the fluctuations in the height of the water were more pronounced than during floods resulting from the melting of snow, the usual cause. In the lower reaches of the river, notably at El Paso, six well-defined crests occurred: On the 7th and 12th, when 17.3 feet was noted; on the 18th, 16.8 feet; on the 21st, the highest stage, 18 feet, occurred. On the 24th and 28th stages of 17 and 16.9 feet, respectively, were noted. The previous highest reading of the El Paso gage is 17.3 feet. Below El Paso the river was reported to have reached the highest stage in 26 years. Notwithstanding timely advices of the different high stages which permitted the taking of steps to minimize the damage, a heavy loss was sustained, principally in the flooding of meadows, breaking of ditches, loss of land by erosion, and destruction of bridges.

*Rio Pecos.*—On July 21, as a result of rains in northern New Mexico, the Rio Pecos at Santa Rosa was changed from a narrow and shallow stream to a river 9 feet deep and 250 feet wide. Three days later and about the time of the arrival of this upstream flood at Carlsbad, a general rain set in on the watershed. Over a large area north, east, and west of Carlsbad the fall was heavy, and in localities torrential. At Carlsbad 3.75 inches fell in five hours. During the night of the 25th the highest stage

was reached, but the exact height was not reported. On the morning of the 26th the river was 14 feet deep and 300 feet wide. At Barstow, Tex., on the 28th, a stage of 17.6 feet was reached, or only 2.4 feet lower than the memorable flood of October 5, 1904. Information is not available as to the extent and amount of damage.

## A VIOLENT LOCAL STORM AT ABILENE, TEX.

By W. H. GREEN, Assistant Observer.

A disastrous thunder and hail storm occurred at this station on the 31st, moving from north to south. The strip damaged by hail is about 10 miles long and about 2 miles wide, beginning about 8 or 9 miles north of Abilene and ending about 1½ miles south of the city. The afternoon preceding the storm was warm and sultry, with a maximum temperature of 98° about 3.30 p. m., and southerly winds of 14 to 18 miles per hour. At 5.48 p. m. the wind shifted from south to southeast, and to northeast by 5.51 p. m., suddenly increasing to a velocity of over 50 miles per hour in about 10 minutes. The temperature dropped from 96° at 5.30 p. m. to 54° at 6.05 p. m., and in the next 15 minutes the pressure increased 0.19 inch. At 6.14 p. m. the wind shifted back through east to southeast, reaching a maximum velocity of 60 miles per hour from the southeast from 6.16 to 6.21 p. m.

Rain began at 6 p. m. and ended at 8.10 p. m., falling at an excessive rate from 6.06 to 7.16 p. m. Practically 3.50 inches, including hail, fell within one hour. Hail varying in size from half an inch to an inch and a quarter in diameter fell from 6.10 to 7 p. m. The hail, with the assistance of the force of the wind, knocked out practically all unprotected window lights in Abilene on the east side of buildings, except in the extreme west part of town, where the hailstones were much smaller than in other sections, while quite a number of window lights on the north and south sides and also those on the east side protected with screens were broken. Several dozen frail buildings were blown off their foundations, a few completely blown down, and two or three destroyed by lightning.

One young man, Vernon Milner, about 25 years old, was killed, being in a barn that was demolished by the wind. Another man, named Cunningham, was blown into Lytle Lake, an artificial reservoir for the city's water supply, and seriously wounded.

There is no evidence of a whirl or gyratory motion of the wind, and the station records show that the wind has reached as high a velocity before this several times, and on two occasions slightly higher, yet the damage from the wind and hail together was probably greater than on any previous occasion. It is believed that \$150,000 is a conservative estimate of the amount of damages in Abilene and vicinity. The damage to the Weather Bureau building and apparatus was comparatively light.

TABLE 1.—*Climatological data for July, 1911. District No. 8, Texas and Rio Grande Valley.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.			
<b>Colorado.</b>																				
Blanca.....	Costilla.....	7,865	2	61.9	.....	82	10	41	9†	39	4.12	.....	1.64	0	13	3	26	2	sw.	Dr. L. C. Audrain.
Cumbres.....	Conejos.....	10,015	4	62.2	+ 0.5	87	10	41	31	42	2.39	+ 1.20	0.53	0	22	0	18	13	w.	Mrs. Ida M. Lively.
Garnett.....	Costilla.....	7,576	18	62.2	+ 0.5	87	10	41	31	42	4.53	.....	0.81	0	20	5	10	16	.....	Chas. Speiser.
Hermit.....	Hinsdale.....	9,843	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	w.	Marion Mason.
La Veta Pass.....	Costilla.....	9,000	1	.....	.....	.....	.....	.....	.....	.....	5.58	.....	1.91	0	13	1	13	17	w.	Clara M. Wright.
Manassa.....	Conejos.....	7,700	5	61.28	.....	83 <sup>b</sup>	10	39 <sup>b</sup>	9†	30†	3.46	.....	0.73	0	16	3	11	15	sw.	J. B. Chapman.
Platoro.....	do.....	9,675	4	.....	.....	.....	.....	.....	.....	.....	4.86	.....	0.70	0	27	3	13	15	w.	Walter R. Hook.
Saguache.....	Saguache.....	7,740	19	64.3	- 0.1	96	13	43	27†	43	3.50	+ 2.05	0.80	0	13	3	4	24	w.	Eugene Williams.
San Luis.....	Costilla.....	7,794	20	61.8	- 1.1	82	9†	42	31	39	4.62	+ 2.33	0.93	0	19	7	17	7	sw.	P. B. Albright.
Wagon Wheel Gap Experiment Station.....	Mineral.....	9,235	1	54.2	.....	73	9	37	31	34	4.28	.....	0.71	0	20	3	12	16	s.	U. S. Weather Bureau.
<b>New Mexico.</b>																				
Agricultural College.....	Dona Ana.....	3,863	48	78.0	- 2.8	98	31	60	25	32	1.36	- 0.49	0.30	0	9	1	30	0	sw.	N. Mex. Agricultural College.
Alamogordo (near).....	Otero.....	4,338	10	77.0	- 2.6	99	21	55	25	37	2.75	+ 0.95	0.78	0	18	0	26	5	sw.	Charles Sutton.
Alamojordón.....	do.....	4,320	2	.....	.....	.....	.....	.....	.....	.....	2.69	.....	0.87	0	12	0	10	13	w.	Agent E. P. & S. W. R. R.
Alamos Ranch.....	Sandoval.....	7,800	5000	35	.....	.....	.....	.....	.....	.....	7.69	.....	1.29	0	21	10	8	13	w.	Harold H. Brooks.
Albuquerque.....	Bernalillo.....	6,000	2	.....	.....	.....	.....	.....	.....	.....	2.14	0.0	0.60	0	10	14	8	9	w.	Pitt Ross, C. E.
Ancho.....	Lincoln.....	6,112	2	.....	.....	.....	.....	.....	.....	.....	4.11	.....	0.91	0	11	1	27	3	nw.	Agent E. P. & S. W. R. R.
Anchor Mine.....	Taos.....	10,600	4	76.4	.....	96	23	56	25	34	7.76	.....	0.90	0	14	5	25	1	se.	C. H. Brigham.
Artesia.....	Eddy.....	3,350	2	.....	.....	.....	.....	.....	.....	.....	4.46	.....	0.63	0	17	3	27	1	e.	Will Benson, C. E.
Aspen Grove Ranch.....	Rio Arriba.....	9,000	2	.....	.....	.....	.....	.....	.....	.....	4.58	.....	0.80	0	13	2	22	7	e.	Junitis D. Maupin.
Batemans Ranch.....	do.....	8,900	2	.....	.....	.....	.....	.....	.....	.....	5.80	.....	0.83	0	22	0	9	22	s.	John W. Bateman.
Bluewater.....	Valencia.....	6,732	10	65.6	- 4.6	89	30	47	8	36	5.51	.....	1.15	0	21	3	15	13	s.	Bluewater Development Co.
Boaz.....	Chaves.....	4,154	2	.....	.....	95	24†	53	25	38	1.51	.....	0.52	0	9	6	19	6	se.	D. C. Savage.
Capitan.....	Lincoln.....	6,345	16	79.2	- 1.0	100	22	60	24	33	5.07	+ 2.64	3.75	0	10	14	12	5	se.	Agent E. P. & S. W. R. R.
Carlsbad.....	Eddy.....	3,120	16	.....	.....	94	31	40	23	40	3.61	.....	1.52	0	6	9	21	1	sw.	U. S. Reclamation Service.
Carson Park.....	Taos.....	7,650	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Lester S. Myers.	
Chama.....	Rio Arriba.....	7,851	12	60.2	- 4.9	79	9	43	31	34	7.04	+ 5.35	1.25	0	17	6	22	3	ne.	Frank C. Johnson.
Cloudcroft.....	Otero.....	8,650	9	60.4	.....	85	11	45	25	39	6.06	+ 2.53	1.20	0	19	8	16	7	.....	Agent E. P. & S. W. R. R.
Corona.....	Lincoln.....	6,666	2	.....	.....	.....	.....	.....	.....	.....	5.38	.....	1.62	0	14	6	0	25	e.	Do.
Coyote.....	do.....	5,800	2	.....	.....	.....	.....	.....	.....	.....	3.14	.....	0.88	0	12	7	10	14	w.	Juan Villij.
Cundyo.....	Santa Fe.....	6,889	2	.....	.....	.....	.....	.....	.....	.....	5.00	.....	1.30	0	14	0	11	16	.....	Erb & Westerman.
Demonstration Farm.....	San Miguel.....	6,800	2	.....	.....	.....	.....	.....	.....	.....	7.68	.....	1.52	0	13	6	18	7	.....	Agent E. P. & S. W. R. R.
Duran.....	Torrance.....	6,272	2	.....	.....	93	31	52	25	34	4.01	.....	2.96	0	19	8	15	8	w.	U. S. Sanitarium.
Elk (near).....	Chaves.....	7,400	11	.....	.....	.....	.....	.....	.....	.....	8.32	.....	1.42	0	21	5	17	9	nw.	F. A. Manzanares.
Escondido.....	Otero.....	4,014	2	.....	.....	100	18	57	25	34	4.77	.....	2.70	0	11	14	11	6	se.	Agent E. P. & S. W. R. R.
Española.....	Rio Arriba.....	5,500	13	69.4	- 2.6	89	10	51	13	36	4.25	+ 2.65	1.62	0	16	9	14	8	s.	Agent E. P. & S. W. R. R.
Estancia.....	Torrance.....	6,140	6	74.6	.....	95	16	52	20	36	7.79	.....	1.29	0	13	17	3	6	e.	Agent E. F. McBride.
Fort Stanton.....	Lincoln.....	6,231	33	67.6	- 1.5	90	23†	47	25	36	5.62	+ 2.62	0.90	0	19	4	11	16	w.	Agent N. Mex. Central R. R.
Fort Sumner.....	Guadalupe.....	3,960	3	77.8	.....	99	3	54	24	37	2.11	.....	0.80	0	10	11	20	0	e.	U. S. Sanitarium.
Gallinas.....	Lincoln.....	6,635	2	.....	.....	92	8†	52	4	34	3.40	.....	0.68	0	17	7	3	21	w.	F. A. Manzanares.
Gallinas Planting Sta.....	San Miguel.....	7,500	4	61.8	.....	82	18	45	25	34	9.01	.....	1.80	0	19	8	15	8	w.	Agent E. P. & S. W. R. R.
Glorietta Ranch.....	Sierra.....	5,700	13	.....	.....	100	23	57	25	34	4.77	.....	2.70	0	11	14	11	6	se.	Charles M. Crossman.
Harveys Upper Ranch.....	Sierra.....	5,400	2	.....	.....	86	31	52	25	33	4.80	.....	1.15	0	18	5	9	17	sw.	Simon B. Warner.
Hillsboro.....	Sierra.....	5,224	13	.....	.....	97	24†	55	25	32	4.22	.....	2.00	0	10	11	16	4	se.	Dr. Frank I. Givens.
Hodges.....	Taos.....	8,484	2	.....	.....	92	8†	52	4	34	6.26	.....	1.60	0	10	13	4	14	w.	Austin Porter.
Hondo Reservoir.....	Chaves.....	3,904	2	77.9	.....	100	23	57	25	34	4.77	.....	0.80	0	17	6	17	8	sw.	U. S. Reclamation Service.
Hope.....	Eddy.....	4,000	3	.....	.....	86	18	49	25	35	4.87	.....	0.75	0	12	1	29	1	sw.	A. W. Board.
Jemez Springs.....	Sandoval.....	6,100	1	67.0	.....	86	31	52	25	33	4.80	.....	2.23	0	16	13	12	6	s.	Linus L. Shields.
Knowles (near).....	Eddy.....	4,300	1	77.0	.....	97	24†	55	25	32	4.22	.....	0.65	0	8	3	25	3	s.	J. W. Mosley.
Laguna.....	Valencia.....	5,840	6	70.6	.....	92	8†	52	4	34	6.26	.....	2.00	0	10	11	16	4	w.	Gus Weiss.
Lagunita.....	Guadalupe.....	4,500	6	.....	.....	84	31	50	25	32	7.76	.....	1.66	0	20	11	11	9	sw.	P. A. Turnbull.
Lake Valley.....	Sierra.....	5,412	6	.....	.....	86	18	49	25	35	4.87	.....	1.27	0	12	1	29	1	sw.	William P. Kell.
Las Vegas.....	San Miguel.....	6,384	24	67.3	- 1.8	86	18	49	25	35	3.55	- 0.43	0.72	0	16	13	12	6	s.	N. M. Normal University.
Liston.....	Chaves.....	5,000	1	.....	.....	86	31	52	25	33	4.80	.....	0.65	0	8	3	25	3	s.	H. G. Liston.
Los Lunas (near).....	Valencia.....	4,900	21	73.5	- 3.6	95	31	51	31	44	2.23	+ 1.09	0.61	0	9	6	21	4	e.	Richard Pohl.
Magdalena.....	Socorro.....	6,557	6	67.4	.....	90	23	50	31	37	5.40	.....	0.90	0	15	6	23	2	e.	William Pender.
Mescalero.....	Otero.....	6,475	6	64.9	.....	84	31	50	25	32	7.76	.....	1.66	0	20	11	11	9	sw.	Rev. Richard H. Harper.
Mineral Hill.....	Ban Miguel.....	7,050	6	.....	.....	86	18	49	25	35	6.01	.....	0.80	0	17	6	17	8	sw.	W. M. Nelson.
Monterey.....	Otero.....	4,436	2	.....	.....	94	18†	52	25	34	4.87	.....	0.40	0	17	5	20	6	sw.	Agent E. P. & S. W. R. R.
Mountainair.....	Torrance.....	6,547	9	.....	.....	100	19	52	25	34	2.91	.....	1.00	0	9	14	0	17	w.	Mrs. John W. Corbett.
Newman.....	Otero.....	3,989	2	.....	.....	80	14	32	30	43	4.22	.....	1.28	0	12	10	14	7	w.	Agent E. P. & S. W. R. R.
Noria.....	Dona Ana.....	4,114	2	.....	.....	80	14	32	30	43	4.75	.....	1.28	0	10	12	10	14	w.	James Brownfield, jr.
Orange.....	Otero.....	5,000	4	.....	.....	80	17	30	25	33	3.70	.....	0.75	0	14	3	15	13	sw.	Agent E. P. & S. W. R. R.
Orogrande.....	do.....	4,171	2	.....	.....	80	17	30	25	33	4.83	.....	1.50	0	14	3	15	13	se.	Eugene F. Jones.
Otis.....	Lincoln.....	5,016	2	.....	.....	80	17	30	25	33	3.18	.....	2.23	0	7	21	6	4	se.	A. M. Hove.
Otto.....	Eddy.....	3,100	2	.....	.....	80	17	30	25	33	5.19	.....	1.30	0	16	0	16	8	sw.	O. H. Johnson.
Pastura.....	Santa Fe.....	6,200	2	.....	.....	80	17	30	25	33	6.34	.....	1.46	0	18	6	23	2	e.	Agent E. P. & S. W. R. R.
Placitas (near).....	Guadalupe.....	5,285	2	.....	.....	80	17	30	25	33	4.75	.....	0.90	0	11	12	15	4	s.	George C. Ellis.
Plainview.....	Bernalillo.....	8,000	61,2	.....	.....	80	17	30	25	33	5.80	.....	0.90	0	14	5	23	3	e.	L. F. Atair.
Red River Canyon.....	Taos.....	8,956	3	56.2	.....	80	14	32	30	43	4.50	.....	0.90	0	14	5	23	3	w.	Mrs. L. R. Penn.
Rincón.....	Dona Ana.....	4,030	13	77.0	- 2.2	98	30	60	25	33	3.69	+ 1.55	1.18	0	12	3	8	20	w.	Charles H. Raitt.
Rio Grande Dam.....	Sierra.....	4,265	13	.....																

TABLE 1.—Climatological data for July, 1911. District No. 8—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Number of rainy days 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Sky.	Prevailing wind direc- tion.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.									
<i>New Mexico—Contd.</i>																							
Tijeras Canyon.	Bernalillo.	6,214	1								4.16		0.65	0	12	11	12	8	sw.				
Torrance.	Torrance.	6,433	2								11.54		5.80	0	14	0	25	6	sw.	U. S. Forest Service.			
Trío Piedras.	Taos.	8,076	6																Agent E. P. & S. W. R. R.				
Truchas.	Rio Arriba.	7,935	2	60.2	75	9	47	17	26	2.91		0.50	0	16	2	18	11	w.	Edwin B. Seward.				
Tularosa.	Otero.	4,436	3															Miss Ruth Rendon.					
Vaughn.	Guadalupe.	5,952	2								4.06		1.25	0	12	0	20	11	nw.	Irby L. Fairless.			
Virginia.	Taos.	7,500	1	66.5	85	23	44	7	28	1.74		1.24	0	20	20	10	4	s.	Agent E. P. & S. W. R. R.				
Winsors.	San Miguel.	8,200	13	58.6	-0.2	85	17	37	5	43	9.91	+ 5.53	0.97	0	23	2	8	21	w.	Dr. J. N. Woodman.			
	<i>Texas.</i>																						
Abilene.	Taylor.	1,738	26	82.8	+ 0.6	107	23	54	31	44	6.39	+ 3.99	3.81	0	9	3	18	10	s.	U. S. Weather Bureau.			
Albany.	Shackelford.	1,429	17	82.2	+ 1.1	109	23	59	25	42	4.14	+ 1.19	1.68	0	4	16	9	6		N. L. Bartholomew.			
Alice.	Nueces.	209	4	86.4 <sup>d</sup>		103	21	71	26	274	1.35		0.80	0	5	15	11	5	se.	R. M. Boerum.			
Alpine.	Brewster.	4,482	1								3.27		1.35	0	4	17	14	0	se.	J. Frank Dobie.			
Alvin.	Brazoria.	49	13	79.8		94	1	68	77	22	12.34	+ 5.41	4.48	0	8	9 <sup>a</sup>	9 <sup>a</sup>	12 <sup>a</sup>	s.	Alvin Japanese Nursery.			
Anahuac.	Chambers.	23	2								4.58		2.12	0	13					B. H. Collins.			
Antelope.	Jack.										3.76		1.75	0	6	11	16	4		Chas. C. Hawkins.			
Aspermont.	Stonewall.										2.06		0.50	0	9					Bryant Link Co.			
Austin.	Travis.	593	55	84.2	+ 0.5	99	23	60	18	30	1.86	- 0.54	1.38	0	4	10	16	5	s.	A. Deussen.			
Bellinger.	Runnels.	1,637	15	84.2	+ 2.1	111	23	64	25	37	1.49	- 1.55	0.42	0	7	11	10	10		E. M. Eubank.			
Barstow.	Ward.	2,573	4	83.0		109	23	64	25	40	0.85		0.30	0	3	12	11	8	e.	Lee F. Freeman.			
Bay City.	Matagorda.	53	1								2.71		0.80	0	9	10	3	18		E. C. Quereau.			
Beaumont.	Jefferson.	29	10	80.8	- 2.1	96	1	67	27	25	8.91	+ 3.95	3.43	0	12	4	2	27		John Bender.			
Beaureille.	Bee.	225	18	84.3	+ 0.5	99	17	70	45	25	0.13	- 3.71	0.08	0	2	2	12	17	se.	L. E. Dickey.			
Big Springs.	Howard.	2,396	13	85.1		109	23	62	25	35	1.34	- 1.65	0.45	0	6	6	20	5	s.	B. Reagan.			
Blanco.	Blanco.	1,350	15	84.4	+ 2.7	101	12	67	40	30	1.37	- 2.16	0.77	0	3	13	17	1	s.	R. C. Crist.			
Boerne.	Kendall.	1,412	19	83.8	+ 3.1	102	23	65	26	29	1.70	- 1.97	1.06	0	3	5	21	5	se.	F. W. Schweppe.			
Booth.	Fort Bend.	81	10								4.51	- 0.52	0.84	0	15	14	0	17		T. R. Booth.			
Bowie.	Montague.	1,113	16	84.0	+ 0.7	107	23	61	25	37	4.40	+ 2.01	1.64	0	12	6	15	10	s.	Craig Anderson.			
Brady.	McCullough.	1,500	10																	G. W. Virling, jr.			
Brazoria.	Brazoria.	25	22	80.4	- 1.1	92	17	69	29	21	14.28	+ 8.97	2.41	0	20	20	5	6	s.	Mrs. M. A. Stevens.			
Brazos.	Palo Pinto.	801	2								5.62		1.30	0	8	10	15	6	s.	Robt. E. Boyett.			
Brenham.	Washington.	350	26	82.6	- 0.7	97	5	69	25	23	4.31	+ 1.20	1.34	0	12	5	13	13	se.	Mrs. B. F. Sloan.			
Bridgeport.	Wise.	754	2								2.96		1.30	0	6	8	12	11	s.	Claude Strange.			
Brighton.	Nueces.	12	18	84.4	+ 1.5	95	41	70	25	23	2.85	+ 1.56	2.50	0	2	26	3	2	se.	G. H. Ritter.			
Brownsville.	Cameron.	38	47	83.0	- 0.8	98	26	70	26	26	0.63	- 1.28	0.40	0	4	7	21	3	s.	U. S. Weather Bureau.			
Brownwood.	Brown.	1,342	19	83.8	+ 0.4	110	23	61	26	34	4.43	+ 2.33	2.90	0	4	7	10	13	s.	Mrs. Pearl Smith.			
Cameron.	Milam.	3	8	84.6		100	3†	66	24	29	4.87		2.50	0	5	19	4	8	s.	J. E. Watts.			
Carmona.	Folk.	330	3	81.2		98	1†	62	26	31	4.52		1.43	0	13	8	21	2	s.	M. S. Spitzer.			
Claytonville.	Fisher.	2,100	16	83.1	+ 2.1	110	23	60	27	38	1.26	- 2.42	0.50	0	5	3	13	15	se.	Wm. Lanier.			
Clifton.	Bosque.	671	1								7.35		4.14	0	8	2	28	1	s.	R. M. Jones.			
Coleman.	Coleman.	1,710	17	82.4	+ 1.4	106	23	63	26	30	4.92	+ 1.78	1.15	0	10	8	18	5	s.	J. E. Stevens.			
College Station.	Brazos.	308	21	83.7	+ 0.3	101	4	66	26	31	5.67	+ 2.98	2.74	0	12	0	22	9	s.	Prof. G. S. Fraps.			
Colorado.	Mitchell.	2,066	17	81.4	- 1.2	107	23	59	26	37	3.20	+ 0.04	1.33	0	8					R. M. Webb.			
Columbus.	Brazoria.	34	22	81.2	- 0.8	97	17	67	27†	26	9.10	+ 4.58	2.85	0	8	20	3	s.	R. B. Loggins.				
Corpus Christi.	Colorado.	206	7								4.14		2.00	0	7	10	13	8	ne.	Mrs. Sophie Bridge.			
Corsicana.	Nueces.	20	24	81.8	- 0.9	92	17	71	25	17	2.04	+ 0.38	1.96	0	5	16	11	4	se.	U. S. Weather Bureau.			
Cotulla.	Navarro.	445	22	82.2	- 1.7	100	4	63	26	35	4.66	+ 2.01	2.70	0	10	16	10	5	s.	D. H. Winn.			
Crockett.	Lasalle.	425	4								0.00		0.00	0	0					Holland Agricultural Co.			
Cuero.	Houston.	350	7	82.4		100	1†	63	25	29	7.15		3.00	0	11	5	23	3	s.	A. M. Rencher.			
Dallas.	De Witt.	177	21	85.6	+ 0.8	103	24	66	26	28	2.84	+ 0.17	2.12	0	0	15	19	2	s.	H. R. Frobose.			
Danevang.	Dallas.	466	22	83.8	- 0.1	106	5	60	26	33	5.84	+ 1.94	2.08	0	12	7	1	23	s.	G. A. Elsenlohr.			
Decatur.	Wharton.	145	15	83.6	+ 0.4	99	2†	68	26	31	3.23	- 1.67	1.00	0	11	13	10	8	se.	H. P. Hermansen.			
Del Rio.	Wise.	1,047	15								0.00		0.00	0	0					Ft. W. & D. C. Ry.			
Devine.	Valverde.	952	5	86.3	+ 1.6	105	22	67	26	27	0.64	- 1.68	0.28	0	5	17	12	2	s.	U. S. Weather Bureau.			
Dialville.	Medina.	653	1	87.2		106	22	72	27	32	0.38		0.20	0	3	21	10	0	se.	M. A. Keller.			
Dilley.	Cherokee.	575	7	80.8		100	5	62	25	28	0.70		2.60	0	8	9	15	7	s.	J. M. B. McKnight.			
Dublin.	Frio.	569	1								0.00		0.00	0	0					John W. Miller.			
Duvall.	Brath.	1,466	15	83.3	+ 1.5	106	23	61	26	31	4.06	+ 1.42	1.52	0	9	3	23	5	s.	Jno. O. Shafer.			
Eagle Pass.	Travis.	820	22	83.2	- 1.2	99	23	66	18	26	2.47	- 0.17	1.55	0	4	15	11	5	se.	J. C. Edgar.			
Eastland.	Maverick.	800	34	87.4	- 0.4	104	22†	68	25	28	0.08	- 1.68	0.04	0	3	17	13	1	se.	Charles Tarver.			
Edna.	Jackson.	71	2								0.60		0.60	0	2	6	23	2		J. R. Gillbreath.			
El Paso.	El Paso.	3,762	32	77.4	- 3.1	97	31	60	25	29	3.43	+ 1.30	1.47	0	15	6	21	4	e.	E. L. Faires.			
Encinal																							

TABLE 1.—Climatological data for July, 1911. District No. 8—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.				Precipitation, in inches.				Sky.	Prevailing wind direction.	Observers.			
				Mean.		Departure from the normal.		Total.		Departure from the normal.							
				Highest.	Date.	Lowest.	Date.	Greatest daily range.	Date.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of partly cloudy days.	Number of clear days.			
<b>Texas—Continued.</b>																	
Henderson.	Rusk.	500	2					14.95		4.50	0	10	9	12	10	M. Kangerga.	
Hewitt.	McLennan.	664	16					5.72	+ 2.36	2.79	0	6				I. H. Earle.	
Hico.	Hamilton.							3.67		1.14	0	7	21	4	6	John A. Eakins.	
Hillsboro.	Hill.	628	8	84.6	102	4	64	25	32	4.55		0	5			W. G. Escott.	
Hondo.	Medina.	901	12	85.8	103	21†	69	4	29	0.67	— 2.66	0	4	21	10	H. E. Haass.	
Houston.	Harris.	138	21	81.4	— 1.6	93	24	69	26	21	6.59 + 2.71	1.73	0	13	29	17	U. S. Weather Bureau.
Huntsville.	Walker.	400	27	82.1	— 1.3	30	1†	66	26†	25	3.87 + 0.96	0.78	0	7	13	0	W. Y. Barr.
Jayton.	Kent.	1									2.85		1.00	0	7	5	Wichita Valley Railway.
Jewett.	Leon.	496	7	84.0	103	3†	62	25	34	3.98		1.80	0	4	15	7	Earle Adkisson.
Junction.	Kimble.	1,645	8	81.3	105	23	58	25	36	3.00		2.00	0	2	7	Judge John S. Durst.	
Kaufman.	Kaufman.	448	12	83.8	— 0.2	105	4	64	24†	31	5.61		2.00	0	6	B. J. Hubbard.	
Kerrville.	Kerr.	1,650	15	83.4	+ 3.3	101	21†	63	26	29	1.21	— 2.55	0.82	0	4	10	Robert E. Horne.
Kulckerbocker.	Tom Green.	2,050	7	84.5		109	23	60	24	38	1.49		1.10	0	4	17	Jos. Tweely.
Kopperl.	Bosque.	576	14							4.08	+ 1.34	1.75	0	6		T. A. Johnson.	
Lagrange.	Fayette.	276	1							2.49		1.25	0	7	14	August Herrnes.	
Lamesa.	Dawson.	2,500	1							3.24		1.12	0	8	S. D. Austin.		
Lampasas.	Lampasas.	1,026	19	83.0	+ 0.4	102	22	64	26	31	3.35	+ 1.49	0.98	0	7	20	Mrs. K. I. Webber.
La Parra.	Cameron.	38	9													Jno. G. Kenedy.	
Laureles Ranch.	Nueces.	20	11													Matt Cody.	
Liberty.	Liberty.	38	7	80.4		94	3†	67	27	23	8.93		5.35	0	9	12	Mrs. Fannie Sneed.
Llano.	Llano.	1,040	20	85.9	+ 0.6	104	22†	69	18†	29	1.11	— 0.63	0.46	0	5	13	E. W. Torrence.
Llano Grande.	Hidalgo.	86	3			99	22†				2.30		0.73	0	7	1	M. D. Wardlow.
Long Lake.	Anderson.	229	6							3.39		1.17	0	9	6	Geo. W. Ellis.	
Longview.	Gregg.	336	25	83.6	— 0.1	104	3†	63	25†	30	6.08	+ 2.85	1.53	0	13	14	C. A. Propst.
Lubbock.	Lubbock.									6.75		2.02	0	9	7	A. L. Paschall.	
Lufkin.	Angelina.	325	4	81.3		98	1†	65	25†	28	11.40		4.00	0	11	13	T. A. King.
Luling.	Caldwell.	418	22	85.0	+ 0.9	100	21	70	18†	26	4.00	+ 1.23	1.80	0	7	14	John Carter.
McGregor.	McLennan.	713	1			97	23	55	25†	37	4.73		3.20	0	4	18	W. H. Whitley.
Marathon.	Brewster.	4,043	1	73.6						4.00		1.10	0	8	10	Rev. A. P. Willis.	
Marble Falls.	Burnet.	771	3							2.36		1.60	0	3	9	R. H. Cochran.	
Marfa.	Presidio.	3								2.55		0.80	0	6		R. K. Colquitt.	
Marshall.	Harrison.	375	2	80.8		102	5	59	25	32	7.51		2.67	0	11	0	Lee Scott.
Matagorda.	Matagorda.	12	1							2.85		0.75	0	6	25	W. E. McNabb.	
Mexia.	Limestone.	537	7	81.6		101	5	62	25†	29	3.61		1.85	0	10	2	Miss Josephine Newman.
Midland.	Midland.	4								3.15		1.24	0	4	21	W. H. Neeb.	
Mission.	Hidalgo.	140	1	84.3		100	16†	70	4†	28	1.09		0.56	0	12	19	Glenn Perryman.
Mont Belvieu.	Chambers.	65	1							4.79		1.85	0	12	0	A. R. Shearer.	
Mountain View.	Pecos.	2,900	1													Lucius W. Gosselin.	
Mount Blanco.	Crosby.	2,750	22	78.1	— 0.5	98	12	57	25	30	3.52	+ 0.33	1.33	0	5	7	H. C. Smith.
Nacogdoches.	Nacogdoches.	271	12	79.6	— 1.2	96	1	64	26	25	11.17	+ 6.13	2.75	0	12	11	Miss Mary Hofmann.
New Braunfels.	Comal.	720	22	83.4	+ 0.6	99	21†	68	4†	26	0.79	— 1.90	0.44	0	4	11	J. Giesecke.
Palestine.	Anderson.	510	29	79.9	— 1.6	95	5	63	26	27	3.72	+ 0.72	1.58	0	12	4	U. S. Weather Bureau.
Panter.	Hood.	1,000	22							3.75		1.03	0	6		E. H. Snider.	
Pearlart.	Frio.	629	1							0.57		0.47	0	3		Earnest De Vilbiss.	
Pierce.	Wharton.	102	5	77.6		93	1†	64	18	28	4.73		1.07	0	13	5	R. B. Pointer.
Plainview.	Hale.	3,370	15	75.0	— 1.8	97	6	52	25	33	10.06	+ 6.29	2.17	0	12	16	J. F. Sander.
Port Arthur.	Jefferson.									9.31		2.50	0	9		Griffing Bros. Co.	
Port Lavaca.	Calhoun.	20	10	83.4	+ 0.4	97	13†	70	6	23	3.79	— 0.48	1.43	0	5	15	J. H. Bickford.
Post City.	Garza.	2,700	1							3.19		0.80	0	9	14	W. L. Dodd.	
Putnam.	Callahan.	1,591								2.20		1.23	0	9	7	Rev. Joseph Reisdorff.	
Raymondville.	Cameron.									0.78		0.46	0	5	11	C. H. Pease.	
Ricardo.	Nueces.	57	2	83.2		101	21	70	5†	25	0.98		0.90	0	3	16	Lindsay Waters.
Riverside.	Walker.	169	7							6.90		2.40	0	8	22	Mrs. C. W. Higdon.	
Robert Lee.	Coke.	1,850	12													H. D. Pearce.	
Rockland.	Tyler.	136	7							5.72		1.10	0	12	8	T. W. Bellamy.	
Rockport **.	Aransas.	12	10	82.2	— 0.8	89	19	73	25	9	1.25	— 1.23	1.25	0	15	12	Mrs. G. B. Grewe.
Rossville.	Atascosa.	558	4	86.6		106	21	63	25	32	0.90		0.47	0	3	9	W. F. M. Ross.
Runge.	Karnes.	308	16							2.25		— 0.88	1.45	0	4	6	Reiffert & Frobese.
Sabinal.	Uvalde.	964	7	85.6		104	21†	68	4	32	0.33		0.20	0	3	6	Jas. Johnston.
Sabado.	Bell.	1								3.74		2.93	0	4	13	L. M. Crockett.	
San Angelo.	Tom Green.	1,847	20	84.5	+ 1.1	108	23	61	27	35	4.80	+ 2.17	2.84	0	6	10	Sam Crowther.
San Antonio.	Bexar.	701	26	84.1	+ 1.7	102	21	64	25	28	1.03	— 1.19	0.33	0	7	12	U. S. Weather Bureau.
San Augustine.	San Augustine.	360	2	81.0		98	3	63	26	27	6.38		3.65	0	11	5	F. A. Wilson.
San Juanito.	Hidalgo.	2		86.8		104	21	69	26	32	1.07		0.38	0	5	9	J. B. McAllen.
San Marcos.	Hays.	588	18	83.6	+ 0.6	100	23	68	26	26	0.22	— 3.57	0.12	0	2	19	Miss L. C. Ford.
San Saba.	San Saba.	1,712	10	83.7	+ 1.8	105	22†	61	26	34	1.03	— 1.73	0.40	0	7	20	Jas. Burns.
Santa Gertrudes.	Nueces.	11								1.01	— 1.19	0.75	0	2		J. B. Wright, jr.	
Sealy.	Austin.	201								5.68		2.50	0	13	7	O. H. Albert.	
Seymour.	Baylor.	1,320	5	81.3		108	6†	58	26	38	5.40		1.85	0	10	13	S. C. Lee.
Somerville.	Scurry.	251	2	82.2		106	22†	58	26	36	1.42		0.48	0	8	4	J. Allen Weaver.
Spur.	Burleson.	2,300		80.6		99	5	66	26	28d	2.74		1.49	0	5	20	W. A. Dolan.
Stamford.	Dickens.			102	6	61	26	31	4.97		1.85	0	10	12	J. D. Reagan.		
Stowell.	Jones.			106	23	62	26	30	1.46		0.43	0	10	6	T. A. Williams.		
Sutherland Springs **.	Chambers.									5.20		3.10	0	6	11	Arthur Bailey.	
Taylor.	Wilson.	1		88.7		106	23	69	4†	32	0.33		0.25	0	2	24	W. A. Clark.
Temple.	Williamson.	583	10	82.8	+ 0.1	98	23	68	18	25	2.59	— 0.03	2.34	0	7	13	U. S. Weather Bureau.
Theodore.	Bell.	630	21	83.8	+ 1.1	100	5†	66	25	30	3.02	+ 0.58	1.27	0	5	21	W. Goodrich Jones.
Thurber.	Winkler.	1								1.15		0.35	0	6		W. H. Gibbs.	
Tilden.	Erath.	5								4.57		1.32	0	7		J. K. Ball.	
Tivoli.	McMullen.															Wm. Kuykendall.	
Uvalde.	Refugio.	1														W. H. Gisler.	
Valentine.	Uvalde.	937	3	85.1 <sup>d</sup>		105	21†	68	4	32 <sup>d</sup>	1.01		0.67	0	4	9	F. M. Getzendaner.
Valentine.	Jeff Davis.	4,421	5	76.0		98	28	57	25	34	3.74		0.				

TABLE 2.—*Daily precipitation for July, 1911. District No. 8, Texas and Rio Grande Valley.*

TABLE 2.—*Daily precipitation for July, 1911. District No. 8—Continued.*

Stations.	Watershed.	Day of month.																														Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
<i>Texas.</i>																																	
Abilene	Brazos	T.	T.	.	T.	.18	T.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	6.39
Albany	do	T.	T.	.	T.	.10	T.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4.14	
Alice	Coast	.	.	.80	.10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.35	
Alpine	Pecos	.	.	.	.	.05	1.81	4.48	.	1.35	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3.27		
Alvin	Coast	.	.	.	.	.05	1.81	4.48	.	1.20	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	12.34		
Anahuac	do	.	.	.	.	.59	.	.	.	2.0	2.12	1.12	.	21	.09	.	T.	.56	.	.	.	.	.	.	.	.	.	.	.	.	4.58		
Antelope	Trinity	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3.76	
Aspermont	Brazos	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2.06	
Austin	Colorado	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.86	
Ballinger	do	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.49	
Barstow	Pecos	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.85	
Bay City	Colorado	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2.71	
Beaumont	Neches	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	8.91	
Beeville	Coast	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.13	
Big Springs	Colorado	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.34	
Blanco	Guadalupe	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.37	
Boerne	San Antonio	1.06	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.70	
Booth	Brazos	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4.51	
Bowie	Trinity	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4.40	
Brady	Colorado	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	5.85	
Brazoria	Brazos	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	14.28	
Brazos	do	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	5.62	
Brenham	Trinity	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4.31		
Bridgeport	do	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2.96		
Brighton	Coast	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2.85		
Brownsville	Rio Grande	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.63		
Brownwood	Colorado	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4.43		
Cameron	do	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4.37		
Carmona	Neches	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4.52		
Claytonville	Trinity	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.26		
Clifton	Brazos	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	7.35		
Coleman	do	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4.92		
College Station	Brazos	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	5.67		
Colorado	do	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3.20		
Columbia	Colorado	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	9.10		
Columbus	do	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4.14		
Corpus Christi	Coast	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2.04		
Corsicana	Guadalupe	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.00		
Cotulla	Nueces	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.00		
Crockett	Trinity	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2.84		
Cuero	Guadalupe	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	5.34		
Dallas	Trinity	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3.23		
Danevang	Coast	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.06		
Decatur	Trinity	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.00		
Del Rio	Rio Grande	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.54		
Devine	Nueces	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.38		
Dialville	do	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	8.70		
Dilley	Nueces	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.00		
Dublin	do	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4.06		
Duval	Brazos	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2.47		
Eagle Pass	Colorado	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.08		
Eastland	do	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.10		
Edna	Brazos	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.43		
El Paso	Rio Grande	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3.43		
Encinal	Nueces	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2.93		
Eola	Colorado	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.81		
Fairland	Coast	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.67		
Falfurrias	Guadalupe	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3.17		
Flatonia	Neches	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	5.81		
Flint	Brazos	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.71		
Floydada	Rio Grande	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.32		
Fort Clark	do	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	6.26		
Fort McIntosh	Pecos	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.28		
Fort Stockton	Trinity	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.90		
Fort Worth	Colorado	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4.75		
Fredericksburg	Gainesville	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4.95		
Galveston	Trinity	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4.73		
Georgetown	do	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.01		
Gonzales	Guadalupe	.	.	.																													

TABLE 2.—*Daily precipitation for July, 1911. District No. 8—Continued.*

Stations.	Watershed.	Day of month.																														Total.			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
<b>Texas—Continued.</b>																																			
La Parra.....	Coast.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
Laureles Ranch.....	do.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
Liberty    .....	Trinity.....	T.	T.	.45	T.	T.	5.35	T.	.25	1.00	T.	.08	.42	.10	.08	T.	T.	T.	T.	T.	T.	1.20	.	.	T.	T.	T.	8.93							
Llano    .....	Colorado.....	T.	T.	.65	.11	.38	.11	.	.04	T.	.	T.	.05	.46	.12	.28	T.	T.	T.	T.	T.	T.	2.30	.	.	T.	T.	T.	1.11						
Llano Grande    .....	Rio Grande.....	T.	.	.03	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
Long Lake    .....	Trinity.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
Longview    .....	Sabine.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
Lubbock.....	Brazos.....	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
Lufkin.....	Neches.....	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
Luling    .....	Guadalupe.....	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
McGregor.....	Brazos.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
Marathon.....	Rio Grande.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
Marble Falls    .....	Colorado.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
Marfa.....	Rio Grande.....	.55	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
Marshall.....	Sabine.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
Matagorda.....	Coast.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
Mexia    .....	Brazos.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
Midland.....	Colorado.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
Mission    .....	Rio Grande.....	T.	.56	.12	T.	.05	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
Mont Belvieu.....	Coast.....	T.	.02	.	T.	T.	1.85	.70	.	.	1.4	.	1.41	.01	.17	T.	.06	.	T.	.	.	18	.03	.	.	.	.	.	.	.	.	.	4.79		
Mountain View.....	Pecos.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
Mount Blanco.....	Brazos.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
Nacogdoches    .....	Neches.....	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
New Braunfels.....	Guadalupe.....	.14	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
Palestine.....	Trinity.....	T.	.02	.	T.	.37	.21	.01	.05	.18	T.	.	.13	.06	.52	.36	.76	.05	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	3.72		
Panter.....	Brazos.....	T.	T.	T.	T.	.26	T.	.03	.	.	T.	.	.90	.32	T.	.	.49	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	3.75		
Pearall.....	Nueces.....	.07	.	.47	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Pierce.....	Colorado.....	.	1.03	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Plainview.....	Brazos.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Port Arthur.....	Coast.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Port Lavaca.....	do.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Post City.....	Brazos.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Putnam.....	T.	.46	.06	T.	.	.14	.	.	.	.	T.	.	.07	.05	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
Raymondville    .....	Coast.....	T.	.	.03	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Ricardo.....	Trinity.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Riverside    .....	Colorado.....	T.	1.15	T.	1.45	.45	1.95	.35	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
Robert Lee    .....	do.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Rockland    .....	Neches.....	T.	.15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Rockport.....	Coast.....	T.	T.	T.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Rossville.....	Nueces.....	.47	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Runge.....	San Antonio.....	.22	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Sabinal.....	Nueces.....	.	.20	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Salado.....	Brazos.....	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
San Angelo.....	Colorado.....	.64	.	T.	.06	.	.	.	.	.	T.	.12	.	.10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
San Antonio.....	San Antonio.....	.26	T.	.	.06	.	.	.	.	.	T.	.	.05	.	T.	.	T.	.	T.	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	1.03	
San Augustine.....	Neches.....	T.	.	.	.	.	.	.	.	.	T.	.	.	.	T.	.	T.	.	T.	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
San Juanito.....	Coast.....	.10	.21	.18	.38	.	.	.	.	.	T.	.	.02	.	T.	T.	T.	T.	T.	T.	T.	T.	.	.	.	.	.	.	.	.	.	.	.		
San Marcos    .....	Guadalupe.....	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
San Saba.....	Colorado.....	T.	.03	.	.	.	.	.	.	.	T.	.	.17	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Santa Gertrudes    .....	Coast.....	.	.	.	.	.	.	.	.	.	T.	.	.17	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Sealy.....	Brazos.....	.03	.62	.	.	.	.	.	.	.	T.	.20	.05	.37	.09	.09	.03	.03	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	5.68
Seymour.....	do.....	.	.	.	.	.	.	.	.	.	T.	.	.04	.	.	.	.	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Snyder    .....	Colorado.....	.	.	.	.	.	.	.	.	.	T.	.	.	.	.	.	.	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Somerville.....	Brazos.....	T.	.	.	.	.	.	.	.	.	T.	.	.	.	.	.	.	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Spur    .....	do.....	.	.	.	.	.	.	.	.	.	T.	.	.	.	.	.	.	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Stamford.....	do.....	.	.	.	.	.	.	.	.	.	T.	.	.	.	.	.	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Stowell.....	Coast.....	.	.	.	.	.	.	.	.	.	T.	.	.	.	.	.	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Sutherland Springs.....	San Antonio.....	.08	.	.	.	.	.	.	.	.	T.	.	.	.	.	.	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Taylor.....	Brazos.....	T.	T.	T.	T.	.	.	.	.	.	T.	.	.02	.	.76	.158	.	.	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
Temple    .....	do.....	T.	.10	.	.	.	.	.	.	.	T.	.	.	.	.	.	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Theodore.....	Pecos.....	.	.	.	.	.	.	.	.	.	T.	.	.25	.	.	.	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Thurber.....	Brazos.....	.	.	.	.	.	.	.	.	.	T.	.	.59	.	.99	.45	.	.	.	T.	.</														

TABLE 3.—Maximum and minimum temperatures at selected stations for July, 1911. District No. 8, Texas and Rio Grande Valley.

Date.	Colorado.				New Mexico.										Texas.						Abilene.		Big Springs.		Brownsville.		Corpus Christi.	
	Garnett.		San Luis.		Agricultural College.		Carlsbad.		Fort Stanton.		Mountain-air.		Rosedale.		Roswell.		Santa Fe.		Santa Rosa.		Abilene.		Big Springs.		Brownsville.		Corpus Christi.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	80	50	70	51	84	66	94	71	76	57	.....	.....	69	54	93	67	70	56	92	61	94	73	97	72	86	71	84	78
2....	64	51	69	52	80	64	93	67	70	54	.....	.....	69	54	88	66	62	55	90	59	93	72	97	70	88	73	86	76
3....	73	48	73	50	89	65	92	63	74	53	.....	.....	70	51	90	61	67	54	91	64	95	73	100	67	88	73	85	78
4....	73	47	74	46	91	66	94	66	78	54	.....	.....	72	51	93	62	76	53	91	65	96	71	100	69	80	71	85	74
5....	77	47	73	49	88	63	98	66	82	53	.....	.....	76	56	96	63	76	55	96	57	99	74	103	73	90	72	88	76
6....	73	54	70	52	82	66	98	65	80	54	.....	.....	70	51	94	66	73	54	89	63	100	75	103	81	91	74	90	76
7....	72	48	77	47	86	66	96	69	77	54	.....	.....	68	53	90	64	70	54	89	61	91	73	98	79	90	76	86	79
8....	78	47	76	49	88	67	95	67	77	53	.....	.....	72	53	87	63	76	53	92	62	90	73	92	78	88	77	86	79
9....	83	42	82	43	89	67	92	66	78	55	.....	.....	77	53	90	66	78	56	92	62	95	75	92	76	90	74	86	79
10....	87	45	82	47	82	65	87	68	72	53	.....	.....	73	53	84	64	73	54	87	60	95	74	95	77	92	74	86	79
11....	80	51	80	49	89	64	90	67	77	54	.....	.....	71	57	90	64	75	57	92	62	96	76	101	79	91	74	86	76
12....	81	54	75	54	91	66	95	67	83	69	.....	.....	77	54	95	65	77	57	96	65	99	77	106	80	92	76	87	76
13....	73	54	74	48	92	67	93	70	78	59	.....	.....	79	54	86	70	73	58	80	64	89	74	95	80	93	74	88	77
14....	74	52	73	52	86	68	95	68	79	55	.....	.....	75	53	85	67	73	53	84	62	84	71	92	70	94	73	87	79
15....	80	46	78	47	92	69	87	67	82	56	.....	.....	72	53	88	66	78	54	88	61	92	69	93	71	92	75	88	77
16....	75	48	76	47	91	67	79	65	80	55	.....	.....	77	55	91	65	74	57	83	64	90	72	93	69	92	75	90	76
17....	79	45	77	45	91	61	83	67	83	55	.....	.....	76	59	92	66	78	53	94	61	92	67	96	71	92	77	92	75
18....	75	50	77	50	93	68	90	65	86	56	.....	.....	78	54	93	65	76	58	95	62	91	69	93	68	91	76	86	79
19....	72	50	73	53	88	69	93	69	77	57	.....	.....	75	56	95	70	75	58	93	65	94	74	100	75	92	77	86	79
20....	71	54	75	53	91	71	92	71	87	55	.....	.....	77	54	93	68	76	55	88	61	95	77	99	73	92	77	86	80
21....	75	50	74	50	96	68	97	72	80	56	.....	.....	74	54	92	68	76	57	89	62	97	76	98	73	91	77	87	78
22....	81	47	76	52	93	64	100	68	87	57	.....	.....	81	52	96	68	78	54	91	64	102	73	107	74	91	76	86	78
23....	77	48	77	49	95	65	96	69	90	55	.....	.....	80	55	98	65	80	55	91	66	107	79	109	74	91	78	82	77
24....	72	48	68	47	80	72	85	60	77	51	.....	.....	71	55	76	62	65	54	96	58	83	67	94	64	93	78	86	78
25....	70	45	70	47	85	60	80	61	72	47	.....	.....	87	52	77	53	69	51	81	52	85	65	87	62	91	76	83	71
26....	79	46	76	48	91	65	88	62	80	52	.....	.....	72	52	86	59	75	56	92	60	88	63	92	62	96	70	86	75
27....	77	45	77	48	87	64	92	67	80	57	.....	.....	70	52	87	67	73	53	93	62	95	71	98	70	92	75	86	76
28....	79	46	77	47	92	67	95	67	80	53	.....	.....	76	55	92	65	78	53	99	60	96	73	100	74	91	76	85	78
29....	80	43	78	43	95	68	94	70	86	54	.....	.....	81	53	94	67	75	52	93	60	91	71	98	72	92	75	86	78
30....	80	43	79	43	97	72	95	69	90	54	.....	.....	83	56	91	63	80	54	97	59	97	72	103	70	92	75	86	76
31....	81	41	78	42	98	66	96	65	88	53	.....	.....	83	59	95	60	81	54	97	60	98	54	101	70	92	75	87	77
Mus..	76.5	47.9	75.3	48.4	89.7	66.3	91.4	66.9	80.4	54.8	.....	.....	74.5	54.0	90.2	64.8	74.4	54.7	91.0	61.4	98.8	71.7	97.8	72.4	91.2	74.8	88.5	77.1

## Texas.

Date.	Del Rio.		El Paso.		Fort McIntosh.		Fort Stockton.		Fort Worth.		Galveston.		Hallettville.		Houston.		Lufkin.		Palestine.		Plainview.		San Antonio.		Seymour.		Taylor.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	93	75	88	68	96	75	92	68	97	75	87	80	88	77	92	74	98	70	94	72	91	59	91	74	100	65	88	70
2....	93	74	84	66	94	73	92	68	96	76	88	80	90	74	90	74	95	72	90	60	93	74	100	66	93	73	88	73
3....	93	72	85	68	95	73	91	67	98	79	87	79	96	73	93	75	98	70	94	72	92	60	93	70	102	65	96	72
4....	93	70	90	69	97	72	93	65	101	78	84	78	96	73	92	75	93	73	94	61	95	65	106	72	97	62	93	73
5....	97	71	88	69	99	73	95	65	101	78	86	78	95	75	97	73	93	70	95	68	94	61	96	73	106	72	97	73
6....	98	74	85	68	101	74	97	65	99	75	85	70	90	77	83	72	85	68	85	69	97	64	91	74	108	70	82	73
7....	98	78	87	67	100	76	95	68	96	72	81	75	95	75	86	78	82	71	89	72	94	64	95	72	108	70	82	72
8....	96	78	85	69	98	77	93	68	88	73	82	70	95	75	86	81	97	71	84	72	92	64	95	66	91	75	99	76
9....	95	78	85	66	98	77	92	66	93	73	8																	